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**1 The type system for object initialization in the Java bytecode language**

Stephen N. Freund, John C. Mitchell

 November 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 6

Publisher: ACM Press

Full text available: [pdf\(394.88 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In the standard Java implementation, a Java language program is compiled to Java bytecode. This bytecode may be sent across the network to another site, where it is then executed by the Java Virtual Machine. Since bytecode may be written by hand, or corrupted during network transmission, the Java Virtual Machine contains a bytecode verifier that performs a number of consistency checks before code is run. These checks include type correctness and, as illustrated by previous attacks on the J ...

**Keywords:** Java, bytecode languages, object initialization, type checking
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Stephen N. Freund, John C. Mitchell

 October 1998 **ACM SIGPLAN Notices, Proceedings of the 13th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications OOPSLA '98**, Volume 33 Issue 10

Publisher: ACM Press

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**3 Completeness of a Bytecode Verifier and a Certifying Java-to-JVM Compiler**

Robert F. Stärk, Joachim Schmid

August 2003 **Journal of Automated Reasoning**, Volume 30 Issue 3-4

Publisher: Kluwer Academic Publishers